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DATE: Septem	iber 26, 2006		
PTO IDENTIFIER:	Application Number Patent Number im H. Teles et al.	10/573,326-Conf. #908	
Inventor: Joaqu			
MESSAGE TO:	US Patent and Tradema	τk Office	
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FROM: CON	NOLLY BOVE LODGE	E & HUTZ LLP	
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Attorney Dkt. #:	13156-00044-US1		
	g Cover Sheet): 11		
C	abmission of IPRP for applica ertificate of Transmission (1) PRP (8 pages)	ntion 10/573,326 (1 page) page)	
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Application No.: 10/573,326

Attorney Docket No.: 13156-00044-US1

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Submission of IPRP for application 10/573,326 (1 page) Fax Transmission (1 page) IPRP (8 pages)

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SEP 2 6 2006

Docket No.: 13156-00044-US1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Joaquim H. Teles et al.

Application No.: 10/573,326

Confirmation No.: 9081

Filed: June 21, 2006

Art Unit: 1616

For: METHOD FOR PRODUCING A KETONE

Examiner: Not Yet Assigned

SUBMISSION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Applicants submit herewith a copy of the International Preliminary Report on Patentability issued in the corresponding international patent application. Each reference cited in the Report has been cited by Applicant in an Information Disclosure Statement filed in the captioned application.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 03-2775, under Order No. 13156-00044-US1 from which the undersigned is authorized to draw.

Dated: September 26, 2006

Respectfully submitted,

Matthew J. Mason, Registration No.: 44,904 CONNOLLY BOVE LODGE & HUTZ LLP

1990 M Street, N.W., Suite 800

Washington, DC 20036

(202) 331-7111

(202) 293-6229 (Fax) Attorney for Applicant

490127

From the INTERNATIONAL BUREAU				
PCT	To:			
NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II OF THE PATENT COOPERATION TREATY) (PCT Rules 44bis.3(c) and 72.2) Set of the patent of t	ISENBRUCK, Günter Isenbruck, Bösl, Hörschler, Wichmann, Huhn Theodor-Heuss-Anlage 12 Sekry CO Sekry CO EDV			
Dale of mailing (day/month/year) 08 September 2006 (08.09.2006) 13. Sc	÷1 2005/9 Abig.			
Applicant's or agent's file reference B03/0721PC International application No. WV:	IMPORTANT NOTIFICATION International filing date (day/month/year) 23 September 2004 (23.09.2004)			
PCT/EP2004/010681	23 September 2004 (23.00.2004)			
Applicant BASF AKTIENC	GESELLSCHAFT et al			
1. Transmittal of the translation to the applicant. The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I). The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II). Transmittal of the copy of the translation to the designated or elected Offices. The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requirement for such a transmitted to the following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request: AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GG, GE, GH, GM, HR, HU, ID, L., IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MM, MW, MX, MZ, MA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, VU, ZA, ZM, ZW 3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s). The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II). It is the applicant's responsibility to prepare and furthish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.				
	Authorized officer			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Yolaine Cussac			
22 22 22 22 22	Facsimile No. +41 22 338 82 70			

TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELEMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference B03/0721PC	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/EP2004/010681	23.09.2004	25.09.2003		
International Parent Classification (IPC) or national classification and IPC C07C45/27, C07C49/607, C07C45/62, C07C49/413 Applicant BASF AKTIENGESELLSCHAFT				
1. This report is the international preliminary examination ceport, established by this International Preliminary Examining Authority				
under Article 35 and transmitted to th 2. This REPORT consists of a total of		luding this cover sheet.		
3. This report is also accompanied by A		i i		
1 -	to the International Bureau) a (ola) of 3	sheets, as follows:		
sheets of the descriptions to the sheets containing respections.	otion, claims and/or drawings which have b ctifications authorized by this Authority (se	ocen amended and are the basis for this report and/or see Rule 70.16 and Section 607 of the Administrative		
sheets which supers the disclosure in th Box.	sede earlier sheets, but which this Authority is international application as filed, as indi-	y considers comain un amendment that goes beyond cated in item 4 of Box No. I and the Supplemental		
1	Bureau only) a total of (indicate type and n	umber of electronic carrier(\$1)		
		containing a sequence listing and/or tables		
related thereto, in compute	r readable form only, as Indicated in the S	applemental Box Relating to Sequence Listing (see		
Section 802 of the Administration relations relations				
Box No. 1 Basis of the	e report	ľ		
Box No. II Priority		and the state of t		
Box No. III Non-estab	lishment of opinion with regard to novelty.	inventive step and industria applicability		
Box No. IV Luck of ur	sity of invention	to the termination		
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement				
Box No. V1 Certain de	euments cited			
Box No. VII Certain de	fects in the international application			
Box No. VIII Certain of	servations on the international application			
Date of submission of the demand Date of completion of this report				
Name and mailing address of the IPEA/F.P	Authorized office	Anthorized officer		

Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL	PRELIMINARY RET	PORT ON PATENTA	ВПТЛЛ.
INTERNATIONAL	, PRELIMINARY RUI	PORT ON PATERIA	D ID

THE CHIMICIANIA OF PARTIES		
PCT/EP2004/01	068	3]

Box No. I	B	asis of the report		
1. With	regard to t	the language, this report is based on the international application in the language in which it was filed, unless otherwise		
	This cann	is based on renelations from the original language into the following language		
	which is the language of a translation furnished for the purposes of:			
		ernational search (Rule 12.3 and 23.1(b)) Ilication of the international application (Rule 12.4)		
		ernational preliminary examination (Rule 55.2 and/or 55.3)		
nd CY.		the elements of the international application, this report is based on (replacement sheets which have been furnished to the the elements of the international application, this report as "originally filed" and are not contexed to in this report as "originally filed" and are not contexed to in response to an invitation under Article 1-1 are referred to in this report as "originally filed" and are not contexed to in this report as "originally filed" and are not contexed to		
	the interr	national application as originally filed/furnished		
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\ <u>L</u>	_	nce listing and/or any related table(s) see Supplemental Box Relating to Sequence Listing.		
3 L		nendments have resulted in the cancellation of:		
		he description, pages		
		he claims, nos.		
ļ		be drawings, sheets/figs		
•		he sequence listing (specify):		
ļ		any table(s) related to requence listing (specify):		
4 [- they h	eport has been established as if (some of) the amendments annexed to this report and listed below had not been made, since the been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Bule 70.2(c)).		
	Ц.	the description, pages		
		be claims, nos.		
		the drawings, sheets/figs		
-		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
		plies, some or all of those sheets may be marked "superseded."		

Form PCT/IPEA/409 (Box No. 1) (January 2004)

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PCI	/EP	2004	/01	0681

Box No. V Reasoned statement under Article 35(2) with re- citations and explanations supporting such state	ard to novelty, inventive step or industrial applicability: ment
1. Statement	
Novelty (N) Claims 1-19	YES
Claims	NO
Inventive step (IS) Claims	YES
	NO
Industrial applicability (IA) Claims 1-19	YES
Claims 1 1 2	МО
2. Chations and explanations (Rule 70.7)	
D1: PATENT ABSTRACTS	OF JAPAN, vol. 2003, no. 12,
5 December 2003 (2003-12-05) &
JP 2004 059434 A	(UBE IND LTD),
26 February 2004	(2004-02-26)
D2: GB 876 531 A (STU	DIENGESELLSCHAFT KOHLE
M.B.H) 6 Septembe	r 1961 (1961-09-06)
D3: EP-A-1 035 119 (U	BE INDUSTRIES, LTD)
13 September 2000	(2000-09-13)
D4: EP-A-1 170 291 (U	BE INDUSTRIES, LTD;
EMS-CHEMIE AG) 9	January 2002 (2002-01-09)
D5: ZAKHARKIN L I ET	AL: "ISOMERIZATION OF TRANS-
1,2-EPOXY-CIS, TF	RANS-5,9-CYCLODODECADIENE,
TRANS-1,2-EPOXY-T	RANS, TRANS-5(9-CYCLODODEC
ADIENE, AND TRANS	S-EPOXYCYCLODODECANE TO THE
CORRESPONDING KET	ONES BY THE ACTION OF LITHIUM
• AND MAGNESIUM IO	DIDES AND BROMIDES", JOURNAL
OF ORGANIC CHEMIS	STRY OF THE USSR (ZHURNAL
	IMII), CONSULTANTS BUREAU.
NEW YORK, US, VO.	l. 26, no. 7, 1990,
pages 1291-1294,	
	/

International application No. PCT/EP2004/010681

Ressoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: Box No. V citations and explanations supporting such statement

- D6: PATENT ABSTRACTS OF JAPAN, vol. 2002, no. 02, 2 April 2002 (2002-04-02) &
 - JP 2001 302570 A (UBE IND LTD),
 - 31 October 2001 (2001-10-31)
- D7: US-A-2 636 898 (BUCKLEY GERARD DUNSTAN) 28 April 1953 (1953-04-28)
- D8: GB 649 680 A (GERARD DUNSTAN BUCKLEY; ALAN PICKLES DRIVER; FRANCIS STEPHEN BRIDSON J) 31 January 1951 (1951-01-31).
- The present application relates to a method for 1. producing cyclododecadienone, cyclododecatriene being reacted with dicarbon monoxide, and cyclododecadienone being obtained. The application also relates to a method for producing cyclododecanone, comprising the following steps: (I) reacting cyclododecatriene with dicarbon monoxide, cyclododecadienone being obtained; (II) hydrating the cyclododecadienone obtained according to step (I), thereby obtaining cyclododecanone.
- D1 discloses the production of cyclododecanone 2. from cyclododecatriene, cyclododecatriene being epoxidised to epoxycyclododecadiene in a first step and, in a second step, the epoxide being hydrated to cylododecanone (P document).
- D2 discloses the production of cyclododecanone 3. /cyclododecadienone from cyclododecatriene, cyclododecatriene being epoxidised to

/...

Box No. V

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/010681

citations and explanations supporting such statement

epoxycyclododecadiene in a first step and, in a second step, the epoxide being catalytically restored to cyclododecanone/cyclododecadienone.

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;

- D3 and D4 disclose the production of 4. epoxycyclododecadiene from cyclododecatriene.
- D5 discloses the reaction of epoxycyclododecadiene 5. to cyclododecadienone and the hydration of cyclododecadienone to cyclododecanone.
- D6 discloses the hydration of 6. epoxycyclododecadiene to cyclododecanone.
- D7 and D8 disclose the oxidation of a cyclic 7. olefinic compound of up to 8 C atoms to one ketone, using dicarbon monoxide.

Novelty

8. The subject matter of claims 1-19 is novel (PCT Article 33(2)). No method for producing cyclododecadienone, cyclododecatriene being reacted with dicarbon monoxide and cyclododecadienone being obtained, has been disclosed in the prior art (see paragraphs 3-7).

Inventive step

The subject matter of claims 1-10 does not involve 9. an inventive step (PCT Article 33(3)):

Form PCT/IPEA/409 (Box No. V) (January 2004)

International application No. PCT/EP2004/010681

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- Methods for producing cyclododedadienone from a. cyclododecatriene, cyclododecatriene being epoxidised to epoxycyclododecadiene in a first step and, in a second step, the epoxide being catalytically reacted to cyclododecadienone (see D2) are known from the prior art.
- b. The technical problem of interest is considered to be that of developing an improved method for producing cyclododecadienone;
- c. In the light of the application, cyclododecatriene can be oxidised to cyclododecadienone by means of a single-step reaction with dicarbon monoxide. In the application, however, there is only evidence (examples) that the method described yields a good result if the method is carried out using 1,5,9-cylclododecatriene and within a predetermined temperature range and pressure range. Since these technical features do not appear in claim 1, the subject matter of claims 1-10 does not involve an inventive step.
- 10. The objection raised in respect of the lack of inventive step (see point 10. above) applies similarly to the subject matter of claims 11-19.

1 . . .

International application No.
PCT/EP2004/010681

Box No. V Reasoned statement under Article 35(2) with regard to movelly, inventive step or industrial applicability: distinguished explanations apporting such statement

Further observations

11. Although claims 1 and 11 are drafted as separate independent claims, they seem in fact to relate to the same subject matter, the only apparent difference being found in the features that, in claim 11, cyclododecadienone is hydrated to cyclododecanone in a second step. Claim 11 should therefore have been drafted independently of claim 1. In consequence, the claims are not concise and fail to satisfy the requirements of PCT Article 6.

The applicant is advised that the subject matter of claim 11 is already included in the subject matter of claim 9.